MISCELLANEOUS TABLES

TABLE 2

Operation	Chamber Volume	
	Cubic Meters per 1000 Kg. of Coal Burned	Cubic Feet per 1000 Pounds of Coal Burned per Hour
Kilns, Ordinary brick	1000	16 018
Porcelain	120	1 923
Refractory brick	35	560
Glass, bottles	35	560
Puddling furnaces	11	177
Crucible steel furnaces	3	50
Rcverberatory furnaces, Iron	2	35
Steel melting	1	17

	Ratio between Grate Area and
Roasting of ores, etc	15
Copper inciting	5
Iron melting	3
Puddling . . .	2
Stool melting	1

From Le Chatelier, Le Chauffage Industriel.

TABLE 3

BESSEMER CONVERTERS

Blast pressure about 25 pounds per square inch = 1 kg 76 per square centimeter-

Blast volume about 900 to 1100 cubic feet of free air per ton per minute = 25 m^3 50 to 31 rn^3 20 per tonne.

Blast pressure must be about seven times the pressure due to the static head of the molten metal.

Molten metal weighs about 430 pounds per cubic foot=6888 kg per cubic meter.

Depth of metal in vessel about 12 inches = 300 mm.

Static head of metal about 3 pounds per square inch = 0 kg 21 per square centimeter.

Tuyere blocks are about 24 inches=600 mrn in depth.

Tuyere holes an* about 0.5 inch = 12 to 15 mm diameter. Five to 7 holes